EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	35	((hash$3 or unique or code or identif$6) with file with name) and (backup and restor$3).ab. and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/25 09:03
L2	41	((hash$3 or unique or code or identif$6 or id) with file with name) and (backup and restor$3).ab. and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/25 09:03
L3	93	((hash$3 or unique or code or identif$6 or id) with file) and (backup and restor$3).ab. and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/25 09:04
L4	34	3 and (707/200-204).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/25 09:04
L5	28	3 and ((request$3 or search$3 or quer$3 or requir$3) with (hash$3 or unique or code or identif$6 or id) with file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/25 09:13
L7	3	3 and ((request$3 or search$3 or quer$3 or requir$3) with (hash$3 or unique or code or identif$6 or id) with file) and rename	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/25 09:07
L8	12	3 and ((request$3 or search$3 or quer$3 or requir$3) with (hash$3 or unique or code or identif$6 or id) with file) and path	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/25 09:13
L9	0	3 and ((request$3 or search$3 or quer$3 or requir$3) with (hash$3 or unique or code or identif$6 or id) with file) and (path with locat$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/25 09:13

EAST Search History

S1	0	(backup with restor$3 with hash$3 with key).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:15
S2	2	(backup with restor$3 with hash$3 with key)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:16
S3	26	(restor$3 with hash$3 with key)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:17
S4	45	((backup$3 or archiv$3) with hash$3 with key)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:21
S5	2	S3 and S4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:16
S6	69	((restor$3 or backup$3 or archiv$3) with hash$3 with key)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:17
S7	4	(backup and restor$3).ab. and S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:18
S8	0	(backup and restor$3).ti. and S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:25

EAST Search History

S9	5	(backup and restor$3).clm. and S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:18
S10	378	((backup$3 or archiv$3) with (hash$3 or unique or identif$5 or code) with key)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:21
S11	47	((backup$3 or archiv$3 or retor$3) with (hash$3 or unique or identif$5 or code) with key).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:23
S12	52	((backup$3 or archiv$3 or retor$3) with hash$3 with (verify$3 or check$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:31
S13	1	S11 and S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:24
S14	8	S10 and S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:24
S15	1	S14 and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:25
S16	27	S11 and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:25

EAST Search History

S17	16	S12 and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:31
S18	0	(backup and restor$3).ti. and S17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:26
S19	2	(backup and restor$3).clm. and S17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:27
S20	0	(backup and restor$3).ab. and S17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:27
S21	0	(hash$3 and restor$3).ab. and S17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:27
S22	29	((backup$3 or retor$3) with hash$3 with (verify$3 or check$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:33
S23	9	S22 and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:33
S24	5	((backup$3 or retor$3) with hash$3 with name)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:33

EAST Search History

S25	0	S24 and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:34
S26	4	(hash$3 with file with name) and (backup and restor$3).ab. and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:38
S27	35	((hash$3 or unique or code or identif$6) with file with name) and (backup and restor$3).ab. and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/25 09:03
S28	10	S27 and hash$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:39
S29	35	((hash$3 or unique or code or identif$6 or signatur$3) with file with name) and (backup and restor$3).ab. and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:48
S30	1	((hash$3 or unique or code or identif$6 or signatur$3) with file with name) and (backup and restor$3 and securit$3).ab. and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:53
S31	2	"780683".apn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:54
S32	1028	(request$3 with (hash$3 or unique) with file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:54

EAST Search History

S33	2	S32 and (backup and restor$3).ab. and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 12:56

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backup restore "hashing key" verify rename Search Advanced Search Preferences

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RELEASE NOTES FOR INFORMIX 8.30.UC1 PRODUCT RELEASE DATE: 24 Sep ...
(If **backup**, **verification**, and **restore** typically require several hours, then you need to begin at least that many hours before midnight. ...
www-306.ibm.com/software/data/informix/pubs/library/notes/relnotes/ids2000/eds0830ruc1.txt - 127k - Cached - Similar pages

Informix TechInfo Center:
A **backup** or **restore** session may fail if started too soon after destroying another ... and the serial column must be the only column in the **hashing key**. ...
www-306.ibm.com/software/data/informix/pubs/library/notes/relnotes/831fd1.html - 116k - Cached - Similar pages

TealLock User's Manual
Always fully **back up** all data and **verify** password functionality before enabling this ... a separate **hashing key** from that used for password **verification**. ...
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TealLock User's Manual Table of Contents
Always fully **back up** all data and **verify** password functionality before setting option. ... utilizing a separate **hashing key** from that used for **verification**. ...
unlock-codes-calculator.currency-trading-49.info/teallock-user-s-manual-table-of-contents-556182 - 120k - Cached - Similar pages

2002-07-04 Yoann Vandoorselaere <yoann@mandrakesoft.com> * sync ...
Else, only try to **verify** if the window is respected if we got an ACK (we might ... **restore** the fds usign it's **backup**, instead of recalling FD_SET macros. ...
svn.prelude-ids.org/branches/qsearch-work/prelude-nids/ChangeLog - 195k - Cached - Similar pages

2002-08-29 Vincent Glaume <vincent.glaume@wanadoo.fr> * src/cm ...
src/prelude/packet_capture.c (PreludeCapture): **restore** the fds usign it's **backup**, instead of recalling FD_SET macros. * src/prelude/include/pconfig.h ...
svn.prelude-ids.org/branches/cm-work/prelude-manager/ChangeLog - 199k - Cached - Similar pages

2001-08-27 Yoann Vandoorselaere <yoann@mandrakesoft.com ...
(SliceAndStoreDataPkt): only **verify** snapend if there is frag_ptr is NULL. ... **restore** the fds usign it's **backup**, instead of recalling FD_SET macros. ...
fresh.t-systems-sfr.com/unix/src/privat2/prelude-0.4.2.tar.gz:t/prelude-0.4.2/ChangeLog - 134k - Cached - Similar pages

[PDF] Solaris 10 Installation Guide: Network-Based Installations
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M (Optional) To Create a **Hashing Key** and an Encryption Key ... You must **restore** your system from a **backup** or begin the Solaris. installation process again. ...
www-uxsup.csx.cam.ac.uk/pub/doc/sun/solaris10/solaris10_network_installation.pdf - Similar pages

/trunk/prelude/ChangeLog - Prelude Hybrid IDS - Trac
1911, * src/prelude/packet_capture.c (PreludeCapture): **restore** the. 1912, fds usign it's

backup, instead of recalling FD_SET macros. ...
https://trac.prelude-ids.org/browser/trunk/prelude/ChangeLog?rev=3 - 354k -
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To **restore** the Directory server from a previously created **backup** directory file: ... The list stores all objects that share the same **hashing key**. ...
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Database
It is good practice to run a complete **VERIFY** FILE before doing an unload); After a successful ... JOURNAL **RESTORE** [FILENAME = **fileid** /] [UPDATE = n /] ...
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Database
It is good practice to run a complete **VERIFY** FILE before doing an unload ... JOURNAL **RESTORE** [FILENAME = **fileid**] [FROM = n] [THRU = n] | [COUNT = n] [NEXT] ...
www.sir.com.au/helpxs/dbms_**backup**.htm - 62k - Cached - Similar pages

Kern's ToDo List 14 January 2003 Documentation to do: (a little ...
Item 7: GUI for interactive **restore** Item 8: GUI for interactive **backup** What: The current ... To initiate a Base save, the Director sends the FD the **FileId**, ...
cvs.sourceforge.net/viewcvs.py/bacula/bacula/kernstodo?rev=1.78 - 27k - Cached - Similar pages

downloadable file robosv txt robosv txt
ROBOSAVE is intended to **backup** a system and then **restore** the data to exactly ... This can be either a complete **fileid** (drive, path, file) or it can be just ...
www.tavi.co.uk/os2pages/ews/robosv.txt - 40k - Cached - Similar pages

[PDF] SafeDR Guide and Reference 1.1.0
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This will **verify** that you can **backup** and **restore** with SafeDR. ... A **backup** or **restore** job named **fileid** is not found on the SafeDR data base disk. ...
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Re: Error code 101 on native db
SYS file > I guess that it will be safe to **restore** the original C_UTIL.SYS file. > > If the error is provoked working on the datafile: > > Get a **backup** of ...
groups.archivesat.com/Microsoft_XAL/thread276898.htm - 40k - Cached - Similar pages

MySQL AB :: Changes in MaxDB™ Version 7.6.00.32
A redo task must be trying to delete a lob file by **renaming** it. ... 10,Job 1 (**Backup** / **Restore** Medium Task) [prepared] WaitingT64 Result=OK ...
dev.mysql.com/doc/maxdb/changes/changes_7.6.00.32.html - 109k - Cached - Similar pages

SourceForge.net: Files
Allow the SD to use multiple drives during a **backup/restore** (only one at a time). ... Make update_free_space a method of DEVICE and **rename** update_freespace. ...
sourceforge.net/project/shownotes.php?group_id=50727&release_id=478120 - 124k - Cached - Similar pages

SourceForge.net: File Release Notes and Changelog
Cleaned up a bit of duplicate code in **backup**, **verify**, and **restore** by ... Reverted to using INTEGER for **FileId** in make_sql_tables due to a bug in MySQL. ...
sourceforge.net/project/shownotes.php?release_id=322669&group_id=50727 - 227k - Cached - Similar pages

MVT/VSE 9.5 - System Control Statements Summary
Header=**fileid** TAPELabel=fname Tlabel=fname. Stand-alone/online **restore** specification (Default). Also **backup** History File **Backup** file ID **...**
www.spursuits.com/mainframe/mvt/m409500102.htm - 114k - Cached - Similar pages

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1 Industrial sessions: beyond relational tables: Coordinating backup/recovery and data consistency between database and file systems

Suparna Bhattacharya, C. Mohan, Karen W. Brannon, Inderpal Narang, Hui-I Hsiao, Mahadevan Subramanian

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, references, index terms

Managing a combined store consisting of database data and file data in a robust and consistent manner is a challenge for database systems and content management systems. In such a hybrid system, images, videos, engineering drawings, etc. are stored as files on a file server while meta-data referencing/indexing such files is created and stored in a relational database to take advantage of efficient search. In this paper we describe solutions for two potentially problematic aspects of such a data ...

Keywords: DB2, content management, database backup, database recovery, datalinks

2 Documentation tools: Documentation meets version control: an automated backup system for HTML-based help

Robin Green

September 2000 **Proceedings of IEEE professional communication society international professional communication conference and Proceedings of the 18th annual ACM international conference on Computer documentation: technology & teamwork IPCC/SIGDOC '00**

Publisher: IEEE Educational Activities Department

Full text available: pdf(449.11 KB) Additional Information: full citation, abstract

Software developers have used version control systems for years, to manage source code changes and to enable them to reproduce any given level of their software from the source code that created it. Most writing departments, however, tend to perform full-scale weekly backups at best, or tempt fate at worst. The two major reasons for this neglect of document version control are lack of adequate tools and the effort required by writers to deal with the inadequate tools presently available. This pa ...

3 Register renaming and dynamic speculation: an alternative approach

Mayan Moudgill, Keshav Pingali, Stamatis Vassiliadis

December 1993 **Proceedings of the 26th annual international symposium on Microarchitecture MICRO 26**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.49 MB) Additional Information: full citation, references, citings

4 Dynamic dead-instruction detection and elimination
J. Adam Butts, Guri Sohi
October 2002 **ACM SIGOPS Operating Systems Review , ACM SIGPLAN Notices , ACM SIGARCH Computer Architecture News , Proceedings of the 10th international conference on Architectural support for programming languages and operating systems ASPLOS-X**, Volume 36 , 37 , 30 Issue 5 , 10 , 5
Publisher: ACM Press
Full text available: pdf(1.50 MB) Additional Information: full citation, abstract, references, citings

We observe a non-negligible fraction--3 to 16% in our benchmarks--of *dynamically dead instructions,* dynamic instruction instances that generate unused results. The majority of these instructions arise from static instructions that also produce useful results. We find that compiler optimization (specifically instruction scheduling) creates a significant portion of these *partially dead* static instructions. We show that most of the dynamically instructions arise from a small set of st ...

5 High performance computing--supercomputing: Implementing virtual memory in a vector processor with software restart markers
Mark Hampton, Krste Asanović
June 2006 **Proceedings of the 20th annual international conference on Supercomputing ICS '06**
Publisher: ACM Press
Full text available: pdf(403.52 KB) Additional Information: full citation, abstract, references, index terms

Traditional vector architectures often lack virtual memory support because it is difficult to support fast and precise exceptions for these machines. In this paper, we propose a new exception handling model for vector architectures based on software restart markers, which divide the program into idempotent regions of code. Within a region, the processor can commit instruction results to the architectural state in any order. If an exception occurs, the machine jumps immediately to the exception h ...

Keywords: exception handling, vector processors

6 Evaluation of two relational database management systems: UNIFY and iDB
Lindsay McDermid
May 1986 **ACM SIGSMALL/PC Notes**, Volume 12 Issue 2
Publisher: ACM Press
Full text available: pdf(3.41 MB) Additional Information: full citation, abstract, index terms

The following document is an evaluation and comparison of two relational database management systems: UNIFY and iDB. UNIFY Release 3.1 runs on the NCR Tower iDB runs a version of Mistress under iDIS Release 1.6 on the Intel 310.

7 Mac OS X panther imaging do's and don'ts
Chris Wiesemann
October 2004 **Proceedings of the 32nd annual ACM SIGUCCS conference on User services SIGUCCS '04**
Publisher: ACM Press
Full text available: Additional Information:

pdf(193.95 KB) full citation, abstract, index terms

In fall of 2003, our department decided to deploy OS X on our 100 or so Apple lab computers. Apple provided a free training session on its OS X Server Network Image Utility, and we jumped at the opportunity. A month of testing left us frustrated with the Network Image Utility and the NetInstall procedure; they simply did not work as advertised.

Apple's OS X Server imaging tools work fine in certain environments, or with post-flight modifications, but we found them to be unusable in ou ...

Keywords: apple software restore, blast image config, carbon copy cloner, casper, imaging, labs, mac OS X, netBoot, netInstall, netRestore, netRestoreHelper. Radmind

8 Scale and performance in a distributed file system

John H. Howard, Michael L. Kazar, Sherri G. Menees, David A. Nichols, M. Satyanarayanan, Robert N. Sidebotham, Michael J. West
February 1988 **ACM Transactions on Computer Systems (TOCS)**, Volume 6 Issue 1
Publisher: ACM Press

Full text available: pdf(2.38 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The Andrew File System is a location-transparent distributed tile system that will eventually span more than 5000 workstations at Carnegie Mellon University. Large scale affects performance and complicates system operation. In this paper we present observations of a prototype implementation, motivate changes in the areas of cache validation, server process structure, name translation, and low-level storage representation, and quantitatively demonstrate Andrews ability to scale gracefully. W ...

9 Decentralized storage systems: Ivy: a read/write peer-to-peer file system

Athicha Muthitacharoen, Robert Morris, Thomer M. Gil, Benjie Chen
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI
Publisher: ACM Press
Full text available: pdf(1.65 MB) Additional Information: full citation, abstract, references

Ivy is a multi-user read/write peer-to-peer file system. Ivy has no centralized or dedicated components, and it provides useful integrity properties without requiring users to fully trust either the underlying peer-to-peer storage system or the other users of the file system.An Ivy file system consists solely of a set of logs, one log per participant. Ivy stores its logs in the DHash distributed hash table. Each participant finds data by consulting all logs, but performs modifications by appendi ...

10 Compiler transformations for high-performance computing

David F. Bacon, Susan L. Graham, Oliver J. Sharp
December 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 4
Publisher: ACM Press

Full text available: pdf(6.32 MB) Additional Information: full citation, abstract, references, citings, index terms, review

In the last three decades a large number of compiler transformations for optimizing programs have been implemented. Most optimizations for uniprocessors reduce the number of instructions executed by the program using transformations based on the analysis of scalar quantities and data-flow techniques. In contrast, optimizations for high-performance superscalar, vector, and parallel processors maximize parallelism and memory locality with transformations that rely on tracking the properties o ...

Keywords: compilation, dependence analysis, locality, multiprocessors, optimization, parallelism, superscalar processors, vectorization

11 Testing II: Automated replay and failure detection for web applications

Sara Sprenkle, Emily Gibson, Sreedevi Sampath, Lori Pollock
November 2005 **Proceedings of the 20th IEEE/ACM international Conference on Automated software engineering ASE '05**
Publisher: ACM Press

Full text available: pdf(585.48 KB) Additional Information: full citation, abstract, references, citings, index terms

User-session-based testing of web applications gathers user sessions to create and continually update test suites based on real user input in the field. To support this approach during maintenance and beta testing phases, we have built an automated framework for testing web-based software that focuses on scalability and evolving the test suite automatically as the application's operational profile changes. This paper reports on the automation of the *replay* and *oracle* components for ...

Keywords: replay, software testing, test oracles, web applications

12 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4
Publisher: ACM Press

Full text available: pdf(5.49 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

13 Beating in-order stalls with "flea-flicker" two-pass pipelining

Ronald D. Barnes, Erik M. Nystrom, John W. Sias, Sanjay J. Patel, Nacho Navarro, Wen-mei W. Hwu
December 2003 **Proceedings of the 36th annual IEEE/ACM International Symposium on Microarchitecture MICRO 36**
Publisher: IEEE Computer Society
Full text available: pdf(247.31 KB) Additional Information: full citation, abstract, index terms

Accommodating the uncertain latency of load instructionsis one of the most vexing problems in in-order microarchitecturedesign and compiler development. Compilers cangenerate schedules with a high degree of instruction-levelparallelism but cannot effectively accommodate unanticipatedlatencies; incorporating traditional out-of-order executioninto the microarchitecture hides some of this latencybut redundantly performs work done by the compiler andadds additional pipeline stages. Although effectiv ...

14 Recovery of RAID and LVM2 volumes

Richard Bullington-McGuire
June 2006 **Linux Journal**, Volume 2006 Issue 146
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(19.41 KB) Additional Information: full citation, abstract, index terms

When there's something strange in your LVM, who you gonna call?

15 The evolution of Coda

M. Satyanarayanan

May 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 2

Publisher: ACM Press

Full text available: pdf(441.35 KB) Additional Information: full citation, abstract, references, citings, index terms

Failure-resilient, scalable, and secure read-write access to shared information by mobile and static users over wireless and wired networks is a fundamental computing challenge. In this article, we describe how the Coda file system has evolved to meet this challenge through the development of mechanisms for server replication, disconnected operation, adaptive use of weak connectivity, isolation-only transactions, translucent caching, and opportunistic exploitation of hardware surrogates. For eac ...

Keywords: Adaptation, Linux, UNIX, Windows, caching, conflict resolution, continuous data access, data staging, disaster recovery, disconnected operation, failure, high availability, hoarding, intermittent networks, isolation-only transactions, low-bandwidth networks, mobile computing, optimistic replica control, server replication, translucent cache management, weakly connected operation

16 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems IS '97**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(7.24 MB) Additional Information: full citation, citings

17 A simple and efficient implementation of a small database

A. Birrell, M. Jones, E. Wobber

November 1987 **ACM SIGOPS Operating Systems Review , Proceedings of the eleventh ACM Symposium on Operating systems principles SOSP '87**, Volume 21 Issue 5

Publisher: ACM Press

Full text available: pdf(689.45 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a technique for implementing the sort of small databases that frequently occur in the design of operating systems and distributed systems. We take advantage of the existence of very large virtual memories, and quite large real memories, to make the technique feasible. We maintain the database as a strongly typed data structure in virtual memory, record updates incrementally on disk in a log and occasionally make a checkpoint of the entire database. We recover fr ...

18 Program Transformation Systems

H. Partsch, R. Steinbrüggen

September 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 3

Publisher: ACM Press

Full text available: pdf(3.00 MB) Additional Information: full citation, references, citings, index terms

19 Automatic tiling of iterative stencil loops

Zhiyuan Li, Yonghong Song
November 2004 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 26 Issue 6
Publisher: ACM Press

Full text available: pdf(947.69 KB) Additional Information: full citation, abstract, references, citings, index terms

Iterative stencil loops are used in scientific programs to implement relaxation methods for numerical simulation and signal processing. Such loops iteratively modify the same array elements over different time steps, which presents opportunities for the compiler to improve the temporal data locality through loop tiling. This article presents a compiler framework for automatic tiling of iterative stencil loops, with the objective of improving the cache performance. The article first presents a ...

Keywords: Caches, loop transformations, optimizing compilers

20 The *Conquest* file system: Better performance through a disk/persistent-RAM hybrid design

An-I Andy Wang, Geoff Kuenning, Peter Reiher, Gerald Popek
August 2006 **ACM Transactions on Storage (TOS)**, Volume 2 Issue 3
Publisher: ACM Press

Full text available: pdf(1.34 MB) Additional Information: full citation, abstract, references, index terms

Modern file systems assume the use of disk, a system-wide performance bottleneck for over a decade. Current disk caching and RAM file systems either impose high overhead to access memory content or fail to provide mechanisms to achieve data persistence across reboots.The *Conquest* file system is based on the observation that memory is becoming inexpensive, which enables all file system services to be delivered from memory, except for providing large storage capacity. Unlike caching, *Con ...*

Keywords: *Persistent RAM, file systems, performance measurement, storage management*

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